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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|---|---|---|---|
| 10/782,867 | 02/23/2004 | Kang Soo Seo | 1740-000085/US | 7081 |

30593 7590 04/10/2008

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| EXAMINER | |
|---|---|
| ADEGEYE, OLUWASEUN | |

| ART UNIT | PAPER NUMBER |
|---|---|
| 2621 | |

| MAIL DATE | DELIVERY MODE |
|---|---|
| 04/10/2008 | PAPER |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

| Office Action Summary | Application No. | Applicant(s) | |
|---|---|---|---|
| | 10/782,867 | SEO ET AL. | |
| | Examiner | Art Unit | |
| | OLUWASEUN A. ADEGEYE | 2621 | |

*-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --*

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1)☒ Responsive to communication(s) filed on *02/23/2004*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4)☒ Claim(s) *1 - 26* is/are pending in the application.

4a) Of the above claim(s) *4 - 5* is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1 - 3 and 6 - 26* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

**Application Papers**

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *02/23/2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☒ All b)☐ Some * c)☐ None of:

1.☒ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date *11/30/2004*.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 - 3 and 6 - 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Nonomura et al (US 6,574,419 B1).

As to **claim 1**, Nonomura discloses a method of reproducing still picture data and audio data from a recording medium (see column 1, lines 58 – 64), comprising:

decoding still picture data and the audio data reproduced from the recording medium based on respective, independent system times (STCs) (see column 18, lines 49 – 57. Column 18, lines 68 – 66 discloses that the STC is reset by the SCR in the first pack of each audio still video object therefore the STCs are independent).

outputting the decoded still picture data based on the respective still picture STC and presentation time stamps (PTSs) in the still picture data (see column 18, lines 49 – 57); and

outputting the decoded audio data based on the respective audio STC and PTSs in the audio data (see column 18, lines 49 – 57).

As to **claim 24**, Nonomura discloses a method of reproducing still picture data and audio data from a recording medium (see column 1, lines 58 – 64), comprising:

generating a first STC for the still picture data based on the still picture data reproduced from the recording medium (see column 18, lines 49 – 67. Column 18, lines 68 – 66 discloses that the STC is reset by the SCR in the first pack of each audio still video object therefore the STCs are independent);

generating a second STC for the audio data based on the audio data reproduced from the recording medium (see column 18, lines 49 – 67. Column 19, lines 6 - 12 discloses that the STC is reset by the SCR in the first pack of each audio still video object therefore the STCs are independent);

decoding the still picture data reproduced from the recording medium based on the first STC (see column 18, lines 49 – 67); and

decoding the audio data reproduced from the recording medium based on the second STC (see column 18, lines 49 – 67 and column 19, lines 6 - 12 ).

outputting the decoded still picture data based on the respective still picture STC and presentation time stamps (PTSs) in the still picture data (see column 18, lines 49 – 57); and

outputting the decoded audio data based on the respective audio STC and PTSs in the audio data (see column 18, lines 49 – 57).

As to **claim 25**, Nonomura discloses an apparatus for reproducing still picture data and audio data from a recording medium (see column 1, lines 58 – 64 and column 19, lines 29 – 30), comprising:

a decoder decoding the still picture data based on a first system time (STCs) (see column 18, lines 58 – 67); and

a decoder decoding the audio data based on a second STC, independent of the first STC (see column 19, lines 6 – 12).

outputting the decoded still picture data based on the respective still picture STC and presentation time stamps (PTSs) in the still picture data (see column 18, lines 49 – 57); and

outputting the decoded audio data based on the respective audio STC and PTSs in the audio data (see column 18, lines 49 – 57).

As to **claim 2**, Nonomura discloses the method of claim 1, further comprising:

generating a first STC for the still picture data based on the still picture data reproduced from the recording medium (see column 18, lines 58 – 67); and

generating a second STC for the audio data based on the audio data reproduced from the recording medium (see column 19, lines 6 – 12).

As to **claim 3**, Nonomura discloses the method of claim 2, wherein

the generating the first STC step generates the first STC from program clock references (PCRs) in the still picture data (see column 18, lines 58 – 67. PCR is the same as SCR); and

the generating the second STC step generates the second STC from PCRs in the audio data (see column 19, lines 6 – 12).

As to **claim 6**, Nonomura discloses the method of claim 1, further comprising:

reproducing transport streams of the still picture and audio data (see column 21, lines 11 – 27) ;

demultiplexing the transport streams into the still picture data and the audio data (see column 21, lines 28 – 65) to obtain first program clock references (PCRs) from the still picture data (see column 18, lines 58 – 67) and second PCRs from the audio data (see column 23, lines 56 – 67);

generating first and second STCs from the first and second PCRs (see column 18, lines 58 – 67 and column 19, lines 6 – 12. PCR is the same as SCR, respectively; and wherein

the decoding step includes, decoding the demultiplexed still picture data based on the first STCs (see column 18, lines 58 – 67), and

decoding the demultiplexed audio data based on the second STCs (see column 19, lines 6 – 12).

As to **claim 7**, Nonomura discloses the method of claim 1, wherein the demultiplexing step further obtains the PTSs in the still picture data and PTSs in the audio data (see column 18, line 58 – column 19, line 12. Column 21, lines 28 – 65 discloses demultiplexing).

As to **claim 8**, Nonomura discloses the method of claim 1, further comprising: reproducing at least one playlist from the recording medium, the playlist including at least one playitem (501) and at least one sub-playitem, the playitem (501) providing navigation information for reproducing at least the still picture data from a first file (see column 8, lines 6 – 10 and column 8, lines 57 – 65), the sub-playitem (911) providing

navigation information for reproducing the audio data from a second file (see column 9, lines 49 – 54);

reproducing the still picture data from the first file based on the navigation information in the playitem (see column 7, lines 42 - 60 and column 8, lines 58 – 65); and

reproducing the audio data from the second file based on the navigation information in the sub-playitem (see column 7, lines 42 - 60 and column 9, lines 49 – 54).

As to **claim 9**, Nonomura discloses the method of claim 8, wherein the playitem provides navigation information for reproducing presentation data from the first file, the presentation data (521) includes at least the still picture data and related data (sub video) associated with the still picture data (see column 7, lines 47 – 51 and column 8, lines 20 - 23); and

the reproducing the still picture data step reproduces the presentation data (see column 8, lines 20 – 23 and column 18, lines 58 – 67).

As to **claim 10**, Nonomura discloses the method of claim 9, wherein the presentation data does not include audio data (see column 8, lines 40 – 42).

As to **claim 11**, Nonomura discloses the method of claim 9, wherein the related data includes at least one of graphics data and subtitle data (see column 7, lines 33 – 34 and column 8, lines 20 – 23).

As to **claim 12**, Nonomura discloses the method of claim 9, wherein the presentation data is divided into one or more still picture units such that each still picture

unit includes at least one still picture and associated related data (see column 8, lines 15 – 23).

As to **claim 13**, Nonomura discloses the method of claim 12, wherein the presentation data is multiplexed into a transport stream on a still picture unit by still picture unit basis (see column 8, lines 15 - 19 and column 21, lines 22 – 27).

As to **claim 14**, Nonomura discloses the method of claim 13, wherein each elementary stream of the presentation data are aligned within the still picture unit (see column 8, lines 15 - 19).

As to **claim 15**, Nonomura discloses the method of claim 14, wherein each elementary stream is a packetized elementary stream (see column 8, lines 35 – 40).

As to **claim 16**, Nonomura discloses the method of claim 15, wherein each still picture unit includes one packet from each packetized elementary stream (see column 8, lines 20 – 25).

As to **claim 17**, Nonomura discloses the recording medium of claim 13, further comprising:

reproducing a clip information file from the recording medium, the clip information file including at least one entry point map, the entry point map (812) including at least one entry point providing at least an address of a still picture in the still picture data (see column 9, lines 4 – 9) ; and wherein

the reproducing the still picture data step reproduces the still picture data from the first file based on the navigation information in the playitem and entry point map (see column 24, lines 8 – 25).

As to **claim 18**, Nonomura discloses the recording medium of claim 17, wherein the entry point map includes an entry point associated with each still picture unit (see column 9, lines 4 – 9).

As to **claim 19**, Nonomura discloses the method of claim 9, wherein the playlist further includes at least one playlist mark pointing to a still picture in the still picture data (see column 11, lines 29 – 43).

As to **claim 20**, Nonomura discloses the method of claim 9, wherein the playlist mark provides information on duration to reproduce the still picture pointed to by the playlist mark (see column 11, lines 35 – 43).

As to **claim 21**, grounds for rejecting claim 8 apply to claim 21 in its entirety.

As to **claim 22**, Nonomura discloses the method of claim 21, wherein the first data stream is a transport stream (see column 21, lines 22 – 36).

As to **claim 23**, Nonomura discloses the method of claim 22, wherein the transport stream includes packetized elementary streams of the still picture data and related data (see column 21, lines 22 – 36).

As to **claim 26**, Nonomura discloses the method of claim I, wherein the outputting the decoded audio data is not synchronized with the outputting the decoded still picture data (see column 19, lines 20 – 23).

## *Conclusion*

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 6,122,436 discloses reproducing still pictures and audio data on a recording medium.

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

## *Inquiries*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLUWASEUN A. ADEGEYE whose telephone number is (571)270-1711. The examiner can normally be reached on Monday - Friday 7:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571-272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

04/08/2008

/O.A/

/Marsha D. Banks-Harold/
Supervisory Patent Examiner, Art Unit 2621